

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Megan Sykes  
Serial No. :  
Filed : October 29, 2003  
Title : MIXED CHIMERISM AND TOLERANCE

Art Unit : Unknown  
Examiner : Unknown

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT


Applicant submits the references listed on the attached forms PTO-1449.

Under 35 USC §120, this application relies on the earlier filing date of application serial number 10/155,878, filed on May 24, 2002. The following references were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application.

This statement is being filed with the application. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 10/29/03

  
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APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO.	SERIAL NO.
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		MGP-047CP	08/855,705
		APPLICANT Megan Sykes	
		FILING DATE May 8, 1997	GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	5,597,563	Jan/97	Beschorner	424	93.7	

## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

	AA	Anasetti et al., Effect of HLA compatibility on engraftment of bone marrow transplants in patients with leukemia or lymphoma, 1989, vol 320:197-204. New England Journal of Medicine
	AB	Aversa et al., Successful engraftment of T-cell-depleted haploidentical "three-loci" incompatible transplants in leukemia patients by addition of recombinant human granulocyte colony-stimulating factor-mobilized peripheral blood progenitor cells to bone marrow inoculum, 1994, vol 84:3948-3955, Blood
	AC	Bachar-Lustig et al., Megadose of T cell-depleted bone marrow overcomes MHC barriers in sublethally irradiated mice, 1995, vol 1:1268-1273, Nature Med.
	AD	Brecher et al., Special proliferative sites are not needed for seeding and proliferation of transfused bone marrow cells in normal syngeneic mice, 1982, vol 79:5085-5087, PNAS USA
	AE	Lee et al., Natural killer cells weakly resist engraftment of allogeneic long-term multilineage-repopulating hematopoietic stem cells, 1996, vol 61:125-132, Transplantation
	AF	O'Reilly et al., Transplantation of marrow depleted T cells by soybean lectin agglutination and E-rosette depletion: major histocompatibility complex-related graft resistance in leukemic transplant recipients, 1985, vol; 17:455-459, Transplant. Proc.
	AG	Stewart et al., Long-term engraftment of normal and post-5-fluoracil murine marrow into normal nonmyeloablated mice, 1993, vol 81:2566-2571, Blood
	AH	Tomita et al., Myelosuppressive conditioning is required to achieve engraftment of pluripotent stem cells contained in moderate doses of syngeneic bone marrow, 1994, vol 83:939-948, Blood
	AI	Tomita et al., Additional mAb injections can replaced thymic irradiation to allow induction of mixed chimerism and tolerance in mice receiving bone marrow transplantation after conditioning with anti-T cell mAbs and 3 Gy whole body irradiation, 1996, vol 61:469-477, Transplantation

Examiner

Date Considered

\*EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

SERIAL NO.

MGP-047CP

08/855,705

**LIST OF PUBLICATIONS CITED BY APPLICANT**  
(Use several sheets if necessary)

**APPLICANT**

Megan Sykes

FILING DATE

May 8, 1997

GROUP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

BA

Tomita et al., Mechanism by which additional monoclonal antibody injections overcome the requirement of thymic irradiation to achieve mixed chimerism in mice receiving bone marrow transplantation after conditioning with anti-T cell mAbs and 3 Gy whole body irradiation, 1996, vol 61:477-485, Transplantation

**Examiner**

Date Considered

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Sheet 1 of 1

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)					
	B		Kahan, "Drug Therapy, Cyclosporine" <u>NE J. Medicine</u> 321(25):1725-1738 (1989)		
	C		Fung et al., "Conversion of Liver Allograft Recipients From Cyclosporine to FK 506-Based Immunosuppression: Benefits and Pitfalls" <u>Transplantation Proc.</u> 23(1):14-21 (1991)		
	D		Makowka et al., The Development of Brequinar as an Immunosuppressive Drug for Transplantation" <u>Immunological Reviews</u> 136:51-70 (1993)		
	E		Sykes et al., "Xenograft Tolerance" <u>Immunological Reviews</u> 141:246-276 (1994)		
	F		Starzl et al., "The Biological Basis of and Strategies for Clinical Xenotransplantation" <u>Immunological Reviews</u> 141:213-244 (1994)		
Examiner			Date Considered		
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Sheet 1 of 1

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. <b>MGP-047CP</b>	SERIAL NO. <b>08/855,705</b>
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT <b>Megan Sykes</b>	
		FILING DATE <b>May 8, 1997</b>	GROUP <b>3738</b>

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	5,876,708	03/1999	Sachs			
	B	5,806,529	09/1998	Reisner			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AB							

## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

	AC	W. Beschorner et al., "Recruitment of Semiallogeneic Dendritic Cells to The Thymus During Post-Cyclophosphorine Thymic Regeneration", <i>Transplantation</i> , Vol. 60, No. 11, pp. 1326-1330, 1995
	AD	Reisner et al., "Bone Marrow Transplantation Across HLA Barriers By Increasing The Number Of Transplanted Cells", <i>Immunology Today</i> , Vol. 16, No. 9, pp. 437-440, 1995.
	AE	
	AF	
	AG	
	AH	
	AI	
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Sheet 1 of 1

<b>Substitute Form PTO-1449</b> (Modified)  <b>Information Disclosure Statement</b> <b>by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>	<b>Attorney's Docket No.</b> 10285-029002	<b>Application No.</b> 09/374,498
	<b>Applicant</b> Megan Sykes		
	<b>Filing Date</b> August 13, 1999	<b>Group Art Unit</b> 3733	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,597,563	01/1997	Beschorner			
	AB	5,806,529	09/1998	Reisner			
	AC	5,876,708	03/1999	Sachs			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AD	WO93/13785	07/22/93	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AE	W. Beschorner et al., "Recruitment of Semiallogeneic Dendritic Cells to The Thymus During Post-Cyclophosphorine Thymic Regeneration", <i>Transplantation</i> , vol. 60, No. 11, pp. 1326-1330, 1995.
	AF	Reisner et al., "Bone marrow Transplantation Across HLA Barriers By Increasing The Number Of Transplanted Cells", <i>Immunology Today</i> , vol. 16, No 9, pp. 437-440, 1995.
	AG	Kahan, "Drug Therapy, Cyclosporine" <i>NE J. Medicine</i> 321(25): 1725-1738 (1989).
	AH	Fung et al., "Conversion of Liver Allograft Recipients From Cyclosporine to FK 506-Based Immunosuppression: Benefits and Pitfalls" <i>Transplantation Proc.</i> 23(1):14-21 (1991).
	AI	Makowka et al., The Development of Brequinar as an Immunosuppressive Drug for Transplantation <i>Immunological Reviews</i> 136:51-70 (1993).
	AJ	Sykes et al., "Xenograft Tolerance" <i>Immunological Reviews</i> 141:246-276 (1994)
	AK	Starzl et al., "The Biological Basis of and Strategies for Clinical Xenotransplantation" <i>Immunological Reviews</i> 141:213-244 (1994).
	AL	Ramshaw et al., "High levels of engraftment with a single infusion of bone marrow cells into normal unprepared mice", <i>Biol. Of Blood and Marrow Transpl.</i> 1:74-80 (1995).
	AM	Shizuru et al., "Transplantation of purified hematopoietic stem cells: Requirements for overcoming the barriers of allogeneic engraftment", <i>Biol. Of Blood and Marrow Transpl.</i> 2:3-14 (1996).
	AN	Anasetti et al., Effect of HLA compatibility on engraftment lymphoma, 1989, vol. 320:197-204. <i>New England Journal of Medicine</i> .
	AO	Aversa et al., Successful engraftment of T-cell-depleted haploidentical "three-loci" incompatible transplants in leukemia patients by addition of recombinant human granulocyte colony-stimulating factor-mobilized peripheral blood progenitor cells to bone marrow inoculum, 1994, vol. 84:3948-3955, <i>Blood</i> .
	AP	Bachar-Lustig et al., Megadose of T cell-depleted bone marrow overcomes MHC barriers in sublethally irradiated mice, 1995, vol. 1:1268-1273, <i>Nature Med.</i>
	AQ	Brecher et al., Special proliferative sites are not needed for seeding and proliferation of transfused bone marrow cells in normal syngeneic mice, 1982, vol. 79:5085-5087, <i>PNAS USA</i> .

<b>Examiner Signature</b>	<b>Date Considered</b>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10285-029002	Application No. 09/374,498
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Megan Sykes	
		Filing Date August 13, 1999	Group Art Unit 3733
(37 CFR §1.98(b))			

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AR	Lee et al., natural killer cells weakly resist engraftment of allogeneic long-term multilineage-repopulating hematopoietic stem cells, 1996, vol. 61:125-132, Transplantation.
	AS	O'Reilly et al., Transplantation of marrow depleted T cells by soybean lectin agglutination and E-rosette deletion: major histocompatibility complex-related graft resistance in leukemic transplant recipients, 1985, vol.; 17:455-459, Transplant. Proc.
	AT	Stewart et al., Long-term engraftment of normal and post-5-fluoracil murine marrow into normal nonmyeloablated mice, 1993, vol. 81:2566-2571, Blood.
	AU	Tomita et al., Myelosuppressive conditioning is required to achieve engraftment of pluripotent stem cells contained in moderate doses of syngeneic bone marrow, 1994, vol. 83:939-948, Blood.
	AV	Tomita et al., Additional mAB injections can replaced thymic irradiation to allow induction of mixed chimerism and tolerance in mice receiving bone marrow transplantation after conditioning with anti-T cell mABs and Gy whole body irradiation, 1996, vol. 61:469-477, Transplantation.
	AW	Tomita et al., Mechanism by which additional monoclonal antibody injections overcome the requirement of thymic irradiation to achieve mixed chimerism in mice receiving bone marrow transplantation after conditioning with anti-T cell mABs and 3 Gy whole body irradiation, 1996, vol. 61:477-485, Transplantation.

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Subt. For, PTO-1449  <b>INFORMATION DISCLOSURE IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>				Docket Number 59056.210		Application Number 09/374,498	
				Applicant Sykes			
				Filing Date August 13, 1999		Group Art Unit 3733	
Sheet	1	OF	1				

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Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)		
AX	KAWAI et al., "Mixed Allogeneic Chimerism and Renal Allograft Tolerance in Cynomolgus Monkeys", Transplantation, Vol. 59, pp 256-262	
AY	SYKES et al., "Induction of High Levels of Allogeneic Hematopoietic Reconstruction and Donor-Specific Tolerance Without Myelosuppressive Conditioning", Nature Medicine, Vol. 3, No. 7, pp 783-787	
AZ	FUCHIMOTO et al., "Mixed Chimerism and Tolerance Without Whole Body Irradiation in a Large Animal Model", The Journal of Clinical Investigation, Vol. 105, No. 12, pp1779-1789	

EXAMINER	DATE CONSIDERED
<b>EXAMINER:</b> Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through citation if not conformance and not considered. Include copy with next communication to applicant.	



Subt. For, PTO-1449				Docket Number 59056.264		Application Number 10/155,878	
<b>INFORMATION DISCLOSURE IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>				Applicant <b>Sykes</b>			
				Filing Date <b>May 24, 2002</b>		Group Art Unit <b>3738</b>	
Sheet	<b>1</b>	OF	<b>1</b>				

U.S. Patent Documents						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,412,492 B1	Jul 2, 2002	Sykes	128	898	Aug 13, 1999

Foreign Patent Documents							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)		

EXAMINER	DATE CONSIDERED
<b>EXAMINER:</b> Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through citation if not conformance and not considered. Include copy with next communication to applicant.	

**Notice of References Cited**

Application/Control No.

10/155,878

Applicant(s)/Patent Under  
Reexamination  
SYKES, MEGAN

Examiner

DAVID J ISABELLA

Art Unit

3738

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**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,514,513	02-2003	Sykes, Megan	424/422
	B	US-6,006,752	12-1999	Sykes, Megan	128/898
	C	US-5,658,564	08-1997	Sykes et al.	424/93.3
	D	US-5,876,708	03-1999	Sachs, David H.	424/93.1
	E	US-6,006,752	12-1999	Sykes, Megan	128/898
	F	US-6,296,846	10-2001	Sachs et al.	424/93.21
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.